

# AMERICAN SOCIETY FOR TESTING MATERIALS



## ~ BULLETIN ~

ENGINEERS' CLUB BUILDING.

1315 SPRUCE ST.

PHILADELPHIA, PA.

NUMBER 14

JULY 31, 1924

### The Twenty-Seventh Annual Meeting

The TWENTY-SEVENTH ANNUAL MEETING OF THE SOCIETY, held at Chalfonte-Haddon Hall, Atlantic City, N. J., June 24-27, 1924, was most successful both as to the number of members in attendance and the interest shown in the various sessions. The total attendance was 1068 as compared with the total of 1051 in 1923. There were 719 members in attendance or represented, 143 guests and 206 ladies. The plan of holding simultaneous sessions practically throughout the meeting, leaving the afternoons open, gave an opportunity for standing committees and sub-committees to meet and still permit the members to attend the regular sessions in which they were interested. There were 14 sessions in all, beginning on Tuesday afternoon, June 24, and closing Friday afternoon, June 27. On two occasions the members met in one group without splitting up into simultaneous sessions. One of these occasions was for the presentation of the Presidential Address, the Reports of Administrative Committees and the introduction of the newly elected officers. The other occasion was to feature a session on methods of testing. The thirteenth and fourteenth sessions also met jointly for a short time for the announcement of the winners and the presentation of the prizes of the Golf and Tennis Tournaments.

#### Presidential Address and Announcement of Election of Officers

The President, Guiliam Aertsen, was introduced at the Wednesday evening session by the presiding officer, Past-President A. A. Stevenson. His Presidential Address dealt with a discussion of the development of steel, a subject in which the Society was very much interested, in that its first and largest committee is the Committee on Steel.

A canvass of the ballot for officers showed that 885 legal ballots had been cast for the following officers:

- For President, to serve for one year: F. M. Farmer;
- For Vice-President, to serve for two years: J. H. Gibboney;
- For members of Executive Committee, to serve for two years: William Campbell, A. E. Jury, Anson Marston, John A. Mathews.

The newly elected president and vice-president were presented to the membership after the presentation of the Presidential Address. Both officers expressed their appreciation of their election and pledged their best endeavors in discharging the responsibilities of their offices.

#### Action on Committee Reports

Reports from 37 of our 41 standing committees, the Annual Report of the Executive Committee and the reports of two Joint Committees were acted upon at the meeting. These reports marked substantial progress in the activities of the Society. The recommendations acted upon have resulted in the acceptance for publication as tentative of revisions in eight existing standards, the reference to letter ballot for adoption as standard of 38 tentative standards and methods and 54 revisions of existing standards, and the acceptance of 42 proposed new tentative standards. The titles of these standards and tentative standards are given on pages 3 and 4. In addition, recommended revisions were approved in 34 existing tentative standards covering such groups of specifications and methods as steel, lime and gypsum, hollow tile, oils, petroleum products, waterproofing, electrical insulating materials and textiles. Of these, 8 are complete rewritings of former tentative standards, and 7 standards were withdrawn.

Upon favorable action by the letter ballot vote referred to, the Society will have on its books 220 standards and 185 tentative standards.

The action of the meeting with respect to the committee reports is set forth in detail in the accompanying Summary of Proceedings. With the exceptions mentioned below and with certain other revisions of a minor character, all of which are referred to in the Summary of Proceedings, the committee reports were adopted as preprinted and ordered published in the Proceedings.

Committee A-1 on Steel withdrew the Proposed Methods of Sampling Finished Material for Check Analysis, which it had intended submitting for publication as tentative. The meeting took action to refer back to the committee for further consideration the note reading as follows which the committee had recommended be added to the table on tolerance for permissible overweights on plates ordered to thickness in the Standard Specifications for Structural Steel for Bridges (A 7-21), for Structural Nickel Steel (A 8-21), for Buildings (A 9-21), for Locomotives (A 10-21) and for Cars (A 11-21):

"Note.—The weight of individual plates ordered to thickness shall not exceed the nominal weight by more than one and one-third times the amount given in this table."

Committee A-3 on Cast Iron submitted revisions of the Tentative Specifications for Chilled Cast-Iron Wheels (A 46-22 T) and its Tentative Specifications for Foundry Pig Iron (A 43-  
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# A.S.T.M. BULLETIN

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AMERICAN SOCIETY FOR TESTING MATERIALS  
Engineers' Club Building, 1315 Spruce St., Philadelphia, Pa.

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Number 14

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## Research—An Outstanding Feature of the Recent Meeting

If there was any single feature of our recent annual meeting that stood out above others it was the importance of research work in the Society and its bearing upon our function in "the promotion of knowledge of the materials of engineering." The Symposium on Corrosion-Resistant, Heat-Resistant and Electrical-Resistance Alloys illustrated one manner in which this function can be successfully carried out, that is, by a survey of existing knowledge in a certain field and the presentation of the results of that survey through papers and reports prepared by acknowledged authorities.

Of even greater importance, however, is a study of the work of the various agencies within the Society or jointly with other societies that are engaged either directly or indirectly in the promotion of knowledge of engineering materials. The belief of the Executive Committee that emphasis must be placed upon this phase of the Society's activities was discussed in its annual report. To the end that there shall be made a study and evaluation of these agencies and that ways and means of further development of this important function shall be studied, a Committee on Correlation of Research in the A.S.T.M. has been appointed as follows:

- H. F. Moore (Chairman), Professor of Engineering Materials, University of Illinois, Urbana, Ill.
- F. G. Breyer, Chief, Research Division, New Jersey Zinc Co., Palmerton, Pa.
- G. K. Burgess, Director, U. S. Bureau of Standards, Washington, D. C.
- G. H. Clamer, President and General Manager, Ajax Metal Co., Philadelphia, Pa.
- F. E. Schmitt, *Engineering News-Record*, New York City.
- C. L. Warwick, Secretary-Treasurer, A.S.T.M. (*ex-officio*).

This committee has held one meeting for organization and has decided that its first problem is to make a survey of all such work being done by the Society. Other problems are the stimulation and possible modification of our present means of promoting knowledge of engineering materials, the selection of fields wherein further knowledge is essential and of greatest importance, the assignment of research problems in those fields to existing or new agencies, and the encouragement of such research work through financial support and publication. This ambitious program of study is closely bound up with the future progress of the Society and will, we are sure, engage the interest and support of the membership as it develops.

## Society Membership

The membership of the Society continues to increase in a very gratifying way. During July there have been added 44 new members, making the total of new members so far this year 337, of which 121 are credited to the efforts of our standing committees. The Society membership is now 3524.

The continued interest of the members individually and of the standing committees is earnestly requested. Every member who attended the annual meeting will realize the ever widening scope of the Society's work and the ever increasing value of the reports and papers that it publishes. These are added reasons why those interested in the materials of engineering should join the Society and support its activities. The publication in about two months of the 1924 Book of Standards, containing the largest collection of standards we have ever published, should be an added inducement to membership at this time, and the members are urged to bring this point to the attention of their friends and acquaintances who are not enrolled in the A.S.T.M.

The record of new members so far this year is excellent—in fact, the second best in our history. It can be improved upon with the help of the members. **WILL YOU TRY TO SECURE ANOTHER MEMBER?**

## Back Proceedings Offered to Members Free

The stock of the Society's Proceedings for the years 1905 to 1916 is greater than can be disposed of by sale for many years. In order to provide storage space for current publications and to equalize the stock of back publications, the Executive Committee has authorized the disposal of the excess volumes, which will first be offered to the members of the Society, thus giving the newer members, particularly, the opportunity of procuring back volumes without cost. The volumes available are Vols. V to XI (1905-1911) and XIII to XVI (1913-1916). The number of copies of each volume to be disposed of ranges from 90 to 400. Vols. V to XI and XIII are in paper binding, while Vols. XIV to XVI are in the form of stitched copies. Members desiring copies of any of these volumes should fill out the accompanying request blank and mail it promptly to the Society.

If all of the volumes available are not taken by members of the Society, they will be offered to certain agencies for filling the much needed wants for such material in certain foreign countries, and to libraries in general.

## Discussions of Reports and Papers

The Committee on Papers and Publications will receive from members written contributions to the discussions of reports and papers up to September 1. Discussions received after that date may not be included in the Proceedings. It is understood that the chairman of each committee or author of a paper will be supplied with copies of such written discussion so that a reply "by letter" may be made if desired.

## Fall Meetings of Metals Committees in Washington

In furtherance of the plan successfully inaugurated last March at Pittsburgh of having as many as possible of the Metals Committees of the Society hold their meetings during a designated "Committee Week," arrangements are being made for holding the fall meetings of a number of these committees in Washington during the latter part of October, probably at the U. S. Bureau of Standards, thus affording opportunity to become better acquainted with the work of the Bureau, particularly as relating to metals. It is expected that from seven to nine of the committees will join in these meetings.

Further announcements, including dates and places of committee meetings, will be mailed to the members of the committees participating.



## Twenty-Seventh Annual Meeting

(Continued from page 1)

22 T) in recommending these specifications for advancement to standard.

Committee B-2 on Non-Ferrous Metals and Alloys recommended the advancement to standard of the Tentative Specifications for Seamless Admiralty Condenser Tubes and Ferrule Stock (B 44-23 T) rather than to continue these specifications as tentative, as originally reported.

Committee C-9 on Concrete and Concrete Aggregates recommended that the Standard Method of Test for Sieve Analysis of Aggregates for Concrete (C 41-22) be revised so that the requirements for tolerances on wire diameter and opening of testing sieves agree with those recommended by Committee E-1 on Methods of Testing.

Committee C-11 on Gypsum amended its report to include recommended revisions of the tolerances on dimensions as given in the Tentative Specifications for Gypsum Wall Board (C 36-22 T). Definitions for the terms "Gypsum Wall Board" and "Gypsum Plaster Board" were referred back to the committee.

Committee D-2 on Petroleum Products and Lubricants submitted a section on scope to be added to the Tentative Method of Test for Sulfur in Naphthas and Illuminating Oils (D 90-21 T).

### Technical Papers Discussed

Of the several subjects on the program which elicited discussion, particular mention should be made of the Symposium on Corrosion-Resistant, Heat-Resistant and Electrical-Resistance Alloys, the discussion on methods of corrosion testing, fatigue of metals, the quality of cast iron entering into cast-iron pipe and the question of the benefit of standardization to the small user.

The Symposium on Corrosion-Resistant, Heat-Resistant and Electrical-Resistance Alloys occupied two entire sessions and was very well received. In a third session the discussion on corrosion testing centered upon the value of accelerated corrosion tests.

In the light of the discussion on the question of the value of standardization to the small user and how its benefits to him may be increased, the subject was referred to the Executive Committee of the Society for development.

The interest that was shown in the general subject of methods of testing with particular reference to the Report of Committee E-1 on Methods of Testing justified the devoting of an entire session to this subject.

Mention should also be made of the interesting papers on concrete and road materials, and on oils and timber testing.

### Other Features of the Meeting

The entertainment features of the meeting were provided by the Entertainment Committee under the able chairmanship of W. M. Corse. The annual dance, held immediately after the general business session on Wednesday evening proved even more popular than in former years. A lecture on Wednesday afternoon on the "Common Sense of Music," by Dr. Sigmund Spaeth, illustrated by means of an Ampico, accompanied by a singer, Miss Ruth Lloyd Kinney, proved most delightful, as well as a lecture given on Thursday afternoon by Dr. Francis Harvey Green, entitled "The Nature and Worth of Wit and Humor." Interest in both the Golf Tournament and Tennis Tournament, which were held on Friday afternoon at the Seaview Golf Club, ran high. Prizes for the tournaments were furnished by a number of the standing committees. The A.S.T.M. championship golf cup and medal for the low score were won by M. M. Upson of New York City. The A.S.T.M. championship tennis cup and medal were won by A. G. Blakeley of Pottsville, Pa. Other prize winners in golf and tennis were: J. H. Chubb, J. H. Young, A. F. Braid, E. D. Boyer, N. B. Hoffman, W. B. Price, D. W. Mulford, G. H. Clamer, L. M. Rossi, J. L. Schueler, Alexander Milne, Powell Pardee, J. G. Detwiler, and L. P. Nemzek.

## Matters Referred to Letter Ballot

By action of the annual meeting, fifty-four revisions of existing standards and thirty-eight tentative standards were referred to letter ballot vote of the membership, as follows:

Proposed revisions in the following fifty-four standards were referred to letter ballot for adoption as standard:

### Standard Specifications for:

Carbon-Steel Rails (A 1-21).  
Open-hearth Steel Girder and High Tee Rails (A 2-21).  
Low-Carbon-Steel Splice Bars (A 3-14).  
Quenched Carbon-Steel Track Bolts (A 50-21).  
Steel Track Spikes (A 65-18).  
Structural Steel for Bridges (A 7-21).  
Structural Nickel Steel (A 8-21).  
Structural Steel for Buildings (A 9-21).  
Structural Steel for Locomotives (A 10-21).  
Structural Steel for Cars (A 11-21).  
Rivet Steel for Ships (A 13-21).  
Wrought Solid Carbon-Steel Wheels for Electric Service (A 25-16).  
Wrought Solid Carbon-Steel Wheels for Steam Service (A 57-16).  
Steel Castings (A 27-21).  
Welded and Seamless Steel Pipe (A 53-21).  
Automobile Carbon and Alloy Steels (A 29-21).  
Boiler and Firebox Steel for Locomotives (A 30-21).  
Boiler Rivet Steel (A 31-21).  
Cold-Drawn Bessemer Steel Automatic Screw Stock (A 32-14).  
Cold-Drawn Open-hearth Steel Automatic Screw Stock (A 54-15).  
Commercial Bar Steels (A 80-21).  
Welded Wrought-Iron Pipe (A 72-21).  
Staybolt, Engine-Bolt and Extra-Refined Wrought-Iron Bars (A 84-21).  
Wrought-Iron Rolled or Forged Blooms and Forgings for Locomotives and Cars (A 73-18).  
Foundry Pig Iron (A 43-09).  
Malleable Castings (A 47-19).  
Copper Pipe, Standard Sizes (B 42-23).  
Brass Pipe, Standard Sizes (B 43-23).  
Drain Tile (C 4-21).  
Clay Sewer Brick (C 32-23).  
Clay Sewer Pipe (C 13-20).  
Cement-Concrete Sewer Pipe (C 14-20).  
Materials for Cement Mortar Bed for Brick, Stone Block and Wood Block Pavements (D 58-20).

### Standard Methods of:

Test for Magnetic Properties of Iron and Steel (A 34-18).  
Chemical Analysis of Plain Carbon Steel (A 33-14).  
Chemical Analysis of Alloy Steels (A 55-15).  
Chemical Analysis of Pig Lead (B 35-20).  
Test for Sieve Analysis of Aggregates for Concrete (C 41-22).  
Testing Shellac (D 29-17).  
Testing Lubricants (D 47-21).  
Test for Apparent Specific Gravity of Sand, Stone and Slag Screenings, and Other Fine Non-Bituminous Highway Materials (D 55-19).  
Test for Softening Point of Bituminous Materials (Ring-and-Ball Method) (D 36-21).  
Test for Softening Point of Tar Products (Cube-in-Water Method) (D 61-21).  
Laboratory Sampling and Analysis of Coal (D 22-21).  
Laboratory Sampling and Analysis of Coke (D 37-21).  
Sampling and Analysis of Creosote Oil (D 38-18).  
Testing Molded Insulating Materials (D 48-22).  
Testing Cotton Rubber-Lined Hose (D 15-15).  
Testing Cotton Fabrics (D 39-20).

### Standard Definitions:

Of Terms Relating to Sewer Pipe (C 8-15).  
Of Terms Relating to Paint Specifications (D 16-22).  
And Rules Governing the Preparation of Micrographs of Metals and Alloys (E 2-20).

### Recommended Practice for:

Annealing of Miscellaneous Rolled and Forged Carbon-Steel Objects (A 35-21).  
Annealing of Carbon-Steel Castings (A 36-14).

Adoption as standards of the following thirty-eight tentative standards:

### Tentative Specifications for:

Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes (A 83-22 T), revised as recommended by Committees A-1 and A-2.  
Boiler and Firebox Steel for Stationary Service (A 70-23 T), revised as recommended by Committee A-1.  
Merchant Bar Iron (A 85-21 T), recommended by Committee A-2.  
Iron and Steel Chain (A 56-21 T), revised as recommended by Committee A-2.  
Chilled Cast-Iron Wheels (A 46-22 T), revised as recommended by Committee A-3.

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## Referred to Letter Ballot

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### Tentative Specifications for:

- High-Test Gray-Iron Castings (A 88-22 T), recommended by Committee A-3.
- Seamless Admiralty Condenser Tubes and Ferrule Stock (B 44-23 T), revised as recommended by Committee B-2.
- Hydrated Lime for Structural Purposes (C 6-23 T), revised as recommended by Committee C-7.
- Quicklime and Hydrated Lime for Use in the Textile Industry (C 48-22 T), recommended by Committee C-7.
- Quicklime and Hydrated Lime for the Manufacture of Silica Brick (C 49-22 T), recommended by Committee C-7.
- Turpentine (D 13-21 T), recommended by Committee D-1.
- Zinc Oxide (D 79-21 T), revised as recommended by Committee D-1.
- Leaded Zinc Oxide (D 80-21 T), revised as recommended by Committee D-1.
- Basic Carbonate White Lead (D 81-21 T), revised as recommended by Committee D-1.
- Basic Sulfate White Lead (D 82-21 T), revised as recommended by Committee D-1.
- Red Lead (D 83-21 T), revised as recommended by Committee D-1.
- Ocher (D 85-21 T), revised as recommended by Committee D-1.
- Gas and Coking Coals (D 166-23 T), recommended by Committee D-5.
- Wrapped Air Hose for Use with Pneumatic Tools (D 46-23 T), recommended by Committee D-11.
- Braided Air Hose for Use with Pneumatic Tools (D 60-23 T), revised as recommended by Committee D-11.
- Wrapped Cold Water Hose (D 177-23 T), recommended by Committee D-11.
- Rubber Matting for Use Around Electrical Apparatus (D 178-23 T), recommended by Committee D-11.
- Rubber Belting for Power Transmission (D 53-23 T), recommended by Committee D-11.
- Adhesive Tape for General Use for Electrical Purposes (D 69-22 T), recommended by Committee D-11.

### Tentative Methods of:

- Determining Weight of Coating on Zinc-Coated Articles (A 90-23 T), recommended by Committee A-5.
- Determining Weight of Coating on Tin, Terne, and Lead-Coated Sheets (D 91-23 T), recommended by Committee A-5.
- Test for Specific Gravity of Pigments (D 153-23 T), recommended by Committee D-1.
- Testing Oleo-Resinous Varnishes (D 154-23 T), revised as recommended by Committee D-1.
- Test for Flash and Fire Points by Means of Open Cup (D 92-23 T), revised as recommended by Committee D-2.
- Test for Water in Petroleum Products and Other Bituminous Materials (D 95-23 T), revised as recommended by Committees D-2 and D-4.
- Test for Water and Sediment in Petroleum Products by Means of Centrifuge (D 96-21 T), recommended by Committee D-2.
- Test for Volume of Cell Space of Lump Coke (D 167-23 T), recommended by Committee D-5.
- Testing Transformer and Switch Oils (D 117-21 T), recommended by Committee D-9.
- Verification of Testing Machines (E 4-23 T), revised as recommended by Committee E-1.
- Metallographic Testing of Iron and Steel (E 3-23 T), recommended by Committee E-4.
- Metallographic Testing of Non-Ferrous Metals and Alloys (E 5-23 T), recommended by Committee E-4.

### Tentative Definitions:

- Of Terms Relating to Hollow Tile (C 43-23 T), revised as recommended by Committee C-10.

### Tentative Recommended Practice:

- For Photography as Applied to Metallography (E 7-23 T), recommended by Committee E-4.

A blank ballot for the vote on these ninety-two items will be sent by first-class mail to each member of the Society in good standing after the mailing of this BULLETIN is completed. The ballot will be canvassed on August 28, 1924.

## New Tentative Standards

Forty-two new specifications and methods were accepted at the annual meeting for publication as tentative standards:

### Metals:

- Specifications for High-Speed Tool Steel.
- Specifications for Hot-Dipped Galvanized Sheets.
- Specifications for Phosphor Tin.
- Specifications for Phosphor Copper.
- Specifications for Silicon Copper.
- Specifications for Manganese-Bronze Ingots for Sand Castings.
- Specifications for Manganese-Bronze Sand Castings.
- Specifications for Seamless 70-30 Brass Condenser Tubes.
- Specifications for Seamless Muntz Metal Condenser Tubes.

### Lime, Concrete and Ceramics:

- Specifications for Quicklime for Use in Water Treatment.
- Specifications for Hydrated Lime for Use in Water Treatment.
- Specifications for Concrete Building Brick.
- Specifications and Tests for Hollow Burned-Clay Fireproofing, Partition and Furring Tile.
- Specifications and Tests for Hollow Burned-Clay Floor Tile.
- Definition of the Term Sand.

### Paints and Oils:

- Method of Test for Coarse Particles in Paint Pigments.
- Methods of Routine Analysis of Titanium Pigments.
- Method of Test for Burning Quality of Kerosene Oils.
- Method of Test for Determination of Wax in Shellac.
- Methods of Testing Oleo-Resinous Varnishes.
- Method of Test for Free Acid in Lubricants.
- Method of Test for Carbon Residue of Lubricants.

### Road Materials:

- Specifications for Broken Stone for Waterbound Base.
- Specifications for Broken Stone for Waterbound Macadam Surface Course.
- Specifications for Broken Stone for Bituminous Macadam.
- Specifications for Broken Stone for Bituminous Concrete Base.
- Specifications for Broken Stone for Bituminous Concrete Surface.
- Specifications for Broken Slag for Bituminous Macadam Base.
- Specifications for Broken Slag for Bituminous Concrete Base.

### Coal:

- Method of Test for Fineness of Powdered Coal.

### Timber and Timber Preservatives:

- Methods for Static Tests of Timbers in Structural Sizes.
- Methods of Chemical Analysis of Zinc Chloride.

### Waterproofing Materials:

- Specifications for High-Bitumen Coal-Tar Pitch for Use in Damp-proofing and Waterproofing Below Ground Level.
- Specifications for High-Bitumen Coal-Tar Pitch for Use in Damp-proofing and Waterproofing Above Ground Level.

### Insulating Materials:

- Methods of Testing Untreated Insulating Paper.

### Textiles:

- Specifications for Tolerances and Test Methods for Electrical Cotton Yarns.
- Specifications for Tolerances and Test Methods for Cotton Sewing Threads.
- Specifications and Tests for Osnaburg Cement Sacks.

### Methods of Testing:

- Method of Verification of Testing Machines by Means of an Elastic Calibration Bar.
- Methods of Tension Testing of Metallic Materials.
- Methods of Compression Testing of Metallic Materials.
- Methods of Brinell Hardness Testing of Metallic Materials.

## Forthcoming Society Publications

**The 1924 Book of A.S.T.M. Standards.**—The Book of A.S.T.M. Standards, issued triennially, will be published this year. It will contain 220 standards and will comprise a volume of between 1100 and 1200 pages. It will include the standards referred to letter ballot by action of the recent annual meeting and will contain all standards of the Society in their latest revised form. This volume will be ready for distribution to all members in good standing about October 15.

**Year Book.**—The 1924 Year Book, about 340 pages, in paper binding, will contain the Charter and By-Laws, the list of members, with geographical distribution, list and personnel of standing committees and their sub-committees, list of standards and tentative standards, and other information. This volume will be ready for distribution to all members in good standing about September 10.

**Book of A.S.T.M. Tentative Standards.**—The Society will again issue a volume containing all the tentative standards of the Society in their latest revised form. The current Proceedings will contain the new and revised tentative standards, but many members find it a convenience to have the complete set of tentative standards in one cover. With this volume and the newly issued Book of Standards, a member will have all the standards and tentative standards issued by the Society. Further announcement of this publication will be made and orders solicited in a later circular letter.

**Proceedings.**—The Proceedings of the recent annual meeting will be published in two parts, designated Vol. 24, Parts I and II. Part I will contain the committee reports and new and revised tentative standards. Part II will contain the technical papers with discussion. Every effort will be made to complete the distribution to members in good standing early in December.